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# NOTICE OF ALLOWANCE AND FEE(S) DUE

30449

06/09/2009

SCHMEISER, OLSEN & WATTS 22 CENTURY HILL DRIVE **SUITE 302** LATHAM, NY 12110

**EXAMINER** DANNEMAN, PAUL ART UNIT PAPER NUMBER

3627

DATE MAILED: 06/09/2009

APPLICATION NO	). FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,119	02/10/2004	Robert A. Orzell	BUR920030192US1	2118

TITLE OF INVENTION: METHOD FOR IDENTIFYING PRODUCT ASSETS IN A SUPPLY CHAIN USED TO SATISFY MULTIPLE CUSTOMER

DEMANDS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new maintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
30449		9/2009		Ce	rtificate	of Mailing or Trans	mission
SCHMEISER, OLSEN & WATTS 22 CENTURY HILL DRIVE SUITE 302			I h Sta ado tra	I hereby certify that this Fee(s) Transmittal is being deposited with the Unit States Postal Service with sufficient postage for first class mail in an envelor addressed to the Mail Stop ISSUE FEE address above, or being facsim transmitted to the USPTO (571) 273-2885, on the date indicated below.			
LATHAM, NY	12110		Г				(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/708,119	02/10/2004		Robert A. Orzell		BU	R920030192US1	2118
DEMANDS		I	ASSETS IN A SUPPLY	_			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE		E FEE	TOTAL FEE(S) DUE	
nonprovisional	NO	\$1510 •	\$300	\$0 <b>¬</b>		\$1810	09/09/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS				
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CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.  3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			listed, no name will be printed.				
recordation as set fort (A) NAME OF ASSI	th in 37 CFR 3.11. Comp GNEE	pletion of this form is NC	T a substitute for filing ai  (B) RESIDENCE: (CIT	a assignment. Y and STATE OR	COUNT	TRY)	ocument has been filed for
Please check the appropri	riate assignee category or	categories (will not be p	rinted on the patent):	■ Individual 🖵 C	orporati	on or other private gro	oup entity Government
4a. The following fee(s)  Issue Fee	are submitted:	4	<ul> <li>b. Payment of Fee(s): (Ple</li> <li>A check is enclosed.</li> </ul>		ny prev	viously paid issue fee	shown above)
Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.				
Advance Order -	# of Copies		The Director is hereboverpayment, to Dep	y authorized to cha osit Account Numb	rge the er	required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	atus (from status indicated s SMALL ENTITY statu	,	☐ b. Applicant is no lo				FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req	uired) will not be accepte ates Patent and Trademarl	ed from anyone other than				ne assignee or other party in
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Typed or printed name				Registration 1	No		
This collection of inform	nation is required by 37 C titality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC	TER 1.311. The informati	on is required to obtain or	retain a benefit by	the pub	lic which is to file (and	I by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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22 CENTURY HII	LL DRIVE	ART UNIT	PAPER NUMBER		
SUITE 302 LATHAM, NY 12	110		3627 DATE MAILED: 06/09/200	9	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1135 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1135 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	I		
	Application No.	Applicant(s)	
Notice of Allowability	10/708,119	ORZELL ET AL.	
Notice of Allowability	Examiner	Art Unit	
	PAUL DANNEMAN	3627	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr <b>IGHTS</b> . This application is	in this application. If not included nunication will be mailed in due course	
1. ☑ This communication is responsive to <u>16 March 2009</u> .			
2. ☑ The allowed claim(s) is/are <u>1-30 and 34-43</u> .			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> </ul>	e been received.	, , , , , , , , , , , , , , , , , , ,	
3. $\square$ Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application fro	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirem	ients
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			∃ OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) $\prod$ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			ie
Attachment(s)	E □ Notice of	Informal Datant Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		Informal Patent Application Summary (PTO-413),	
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> </ol>	Paper No	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date	<u></u>		•
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. ⊠ Examiner  9. ☐ Other	's Statement of Reasons for Allowance	<b>3</b>
/Paul Danneman/	/F. Ryan Zee	 ender/	
Examiner, Art Unit 3627		atent Examiner, Art Unit 3627	
2 Jun 2009		,	

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#### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be

unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure

consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this Examiner's Amendment was given in a telephone interview with Anthony M.

Palagonia, Reg. No. 41,237 on 30 April 2009 to amend Claim 29 and on 2 June 2009 to amend Claim 1

and 15.

### The Application has been amended as follows:

3. In the Claims:

1. (Currently Amended) A method for identifying product assets in a supply chain used to satisfy

customer demands, comprising:

(a) receiving a customer demand schedule for delivery of products;

(b) receiving a planned inventory requisition schedule of all components to be assembled into

said products, said planned inventory requisition schedule generated from said customer demand

schedule by a production scheduling run;

(c) receiving bills of materials listing all components required for each of said products;

after (a), (b) and (c), (d) generating, by a processor of a computer system, first and second

coverage files from said planned inventory schedule, from said customer demand

schedule and from said bills of materials, said first coverage file containing a list of assets

including products to be used for product shipments and components to be assembled into products

to meet product shipment demands, said second coverage file containing a list of all other assets;

and

after (d), (e) generating, by said processor of said computer system, from said first and second coverage files, a set of demand pegging records, said demand pegging records associating a quantity and an availability date of each component of each product with a required quantity of each of said products, each demand pegging record consistent with said planned inventory requisition schedule.

- **15.** (Currently Amended) A computer system comprising a processor, an address/data bus coupled to said processor, and a computer-readable memory unit adapted to be coupled to said processor, said memory unit containing instructions that when executed by said processor implement a method for identifying product assets in a supply chain used to satisfy customer demands, said method comprising the computer implemented steps of:
  - (a) receiving a customer demand schedule for delivery of products;
- (b) receiving a planned inventory requisition schedule of all components to be assembled into said products, said planned inventory requisition schedule generated from said customer demand schedule by a production scheduling run;
  - (c) receiving customer bills of materials listing all components required for each of said products;

after (a), (b) and (c), (d) generating first and second coverage files from said planned inventory schedule, from said customer demand schedule and from said bills of <u>materials</u>, said first coverage file containing a list of assets including products to be used for product shipments and components to assembled into products to meet product shipment demands, said second coverage file containing a list of all other assets; and

after (d), (e) generating from said from said first and second coverage files, a set of demand pegging records, said demand pegging records associating a quantity and an availability date of each component of each product with a required quantity of each of said products, each demand pegging record consistent with said planned inventory requisition schedule.

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29. (Currently Amended) A program storage device readable by machine, tangibly embodying a

program of instructions executable by the machine to perform method steps for identifying product assets

in a supply chain used to satisfy customer demands said method steps comprising:

(a) receiving a customer demand schedule for delivery of products;

(b) receiving a planned inventory requisition schedule of all components to be assembled into

said products, said planned inventory requisition schedule generated from said customer demand

schedule by a production scheduling run;

(c) receiving bills of materials listing all components required for each of said products; each

component and product having a low-level-code indicating a sequence in which said components are

assembled into said products and each product and component having a unique part-number;

after (a), (b) and (c), (d) generating first and second coverage files from said planned inventory

schedule, from said customer demand schedule and from said bills of materials, said first coverage file

containing a list of assets including products to be used for product shipments and components to be

assembled into products to meet product shipment demands, said second coverage file containing a list

of all other assets; and

after (d), (e) generating from said from said first and second coverage files, a set of demand

pegging records, said demand pegging records associating a quantity and an availability date of each

component of each product with a required quantity of each of said products, each demand pegging

record consistent with said planned inventory requisition schedule.

**EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE** 

4. Best U.S. reference: Dietrich et al., US 5,548,518, teaches a novel allocation method for

generating a feasible production schedule. The method, in response to a specified requirement (q),

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comprises the steps of determining what quantity (r) of a product can be produced with a specified quantity of supply components; allocating a required quantity of supply components for filling a thus

defined partial order; and filling a remainder of the requirement (q-r) at some later time.

5. Best NPL reference: Lyon, Peter, Matching Assets with Demand in Supply-Chain

Management at IBM Microelectronics, published in INFORMS, Journal ISSN:0092-2102, V31, n1,

p.108-124, teaches a supply-chain-management (SCM) process with the best-can-do (BCD) activity to

determine how to best meet prioritized demand without violating temporal, asset, or capacity constraints.

It creates a projection of what can be produced to meet demand, a key element of the available-to-

promise (ATP) type of matching. The optimal-manufacturing-resource-planning (OMRP) and BCD

application move work units (WIP or starts) either forward to project completed parts or backwards to

determine starts required across the bill-of-material (BOM) chain using cycle time, yield, capacity, and

product structure. Implosion is typically used to estimate what finished goods will be available to meet

demand and explosion to estimate what starts are needed at what due dates to insure meeting existing

demand on time.

6. No prior art cited here or in any previous Office action fully anticipates nor renders the claims

obvious either alone or in combination. Independent Claim 1 and its dependent Claims 2-7 satisfy

customer demands by receiving a customer demand schedule for delivery of products, receiving a

planned inventory requisition schedule for all components of the products, bills of material of all

components where each component and product listed in the bills of material have a low-level-code

indicating a sequence in which said components are assembled into said products (as recited in Claims

1, 6 and 29), to generate a set of demand pegging records associating a quantity and an availability date

for each component of each product with a required quantity of each said products where each demand

pegging record is consistent with a planned inventory requisition schedule. Independent Claims 8, 15,

20, 22, 29 and 30 and their dependent claims recite similar limitations.

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Conclusion

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7. Any comments considered necessary by applicant must be submitted no later than the payment

of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such

submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to PAUL DANNEMAN whose telephone number is (571)270-1863. The examiner can

normally be reached on Mon.-Thurs. 6AM-5PM Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Florian Zeender can be reached on 571-272-6790. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative

or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-

1000.

/Paul Danneman/

Examiner, Art Unit 3627

18 May 2009

/F. Ryan Zeender/

Supervisory Patent Examiner, Art Unit 3627